The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	<u> 09/963,693 B</u>
Source:	1F11/6
Date Processed by STIC:	11-15-2004

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 11/15/2004 TIME: 12:40:01

Input Set : N:\Crf3\RULE60\09963693b.raw.txt
Output Set: N:\CRF4\11152004\1963693B.raw

PATENT APPLICATION: US/09/963,693B

```
1 <110> APPLICANT: Ruvkun, Gary
      2
              Ogg, Scott
      3 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
              IMPAIRED GLUCOSE TOLERANCE CONDITIONS
      5 <130> FILE REFERENCE: 00786/351004
C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/963,693B
      7 <141> CURRENT FILING DATE: 2001-09-25
      8 <150> PRIOR APPLICATION NUMBER: US/09/205,658
     9 <151> PRIOR FILING DATE: 1998-12-03
     10 <150> PRIOR APPLICATION NUMBER: 08/857,076
     11 <151> PRIOR FILING DATE: 1997-05-15
     12 <150> PRIOR APPLICATION NUMBER: 08/888,534
    13 <151> PRIOR FILING DATE: 1997-07-07
    14 <150> PRIOR APPLICATION NUMBER: US98/10080
     15 <151> PRIOR FILING DATE: 1998-05-15
    16 <160> NUMBER OF SEQ ID NOS: 331
    17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    19 <210> SEQ ID NO: 1
    20 <211> LENGTH: 20
    21 <212> TYPE: DNA
    22 <213> ORGANISM: Artificial Sequence
    23 <220> FEATURE:
    24 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
    25 <400> SEQUENCE: 1
             cgctacggca aaaaagtgaa
                                                                                      20
    28 <210> SEO ID NO: 2
    29 <211> LENGTH: 18
    30 <212> TYPE: DNA
    31 <213> ORGANISM: Artificial Sequence
    32 <220> FEATURE:
    33 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
    34 <400> SEQUENCE: 2
             cgatgatgaa gatacccc
                                                                                      18
    37 <210> SEQ ID NO: 3
    38 <211> LENGTH: 20
    39 <212> TYPE: DNA
    40 <213> ORGANISM: Artificial Sequence
    41 <220> FEATURE:
    42 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
    43 <400> SEQUENCE: 3
             tgatgcgaac ggcgatcgat
                                                                                      20
    46 <210> SEQ ID NO: 4
    47 <211> LENGTH: 20
```

DATE: 11/15/2004 TIME: 12:40:01

PATENT APPLICATION: US/09/963,693B

		TYPE: DNA	
49	<213>	ORGANISM: Artificial Sequence	
		FEATURE:	
51	<223>	OTHER INFORMATION: Primer/probe derived from C. elegans	
52	<400>	SEQUENCE: 4	
53		acgctggatc atctacatta	20
55	<210>	SEQ ID NO: 5	
56	<211>	LENGTH: 22	
		TYPE: DNA	
58	<213>	ORGANISM: Artificial Sequence	
59	<220>	FEATURE:	
60	<223>	OTHER INFORMATION: Primer/probe derived from C. elegans	
61	<400>	SEQUENCE: 5	
62		ggtttaatta cccaagtttg ag	22
64	<210>	SEQ ID NO: 6	22
65	<211>	LENGTH: 20	
66	<212>	TYPE: DNA	
67	<213>	ORGANISM: Artificial Sequence	
		FEATURE:	
69	<223>	OTHER INFORMATION: Primer/probe derived from C. elegans	
70	<400>	SEQUENCE: 6	
71		gctcacgggt cacacaacqa	20
73	<210>	SEQ ID NO: 7	20
74	<211>	LENGTH: 20	
7 5	<212>	TYPE: DNA	
76	<213>	ORGANISM: Artificial Sequence	
77	<220>	FEATURE:	
		OTHER INFORMATION: Primer/probe derived from C. elegans	
79	<400>	SEQUENCE: 7	
80		tgatgcgaac ggcgatcgat	20
82	<210>	SEQ ID NO: 8	20
		LENGTH: 21	
		TYPE: DNA	
85	<213>	ORGANISM: Artificial Sequence	
		FEATURE:	
87	<223>	OTHER INFORMATION: Primer/probe derived from C. elegans	
88	<400>	SEQUENCE: 8	
89		tgagggccaa ctaaagaaga c	21
91	<210>	SEQ ID NO: 9	21
92	<211>	LENGTH: 20	
		TYPE: DNA	
94	<213>	ORGANISM: Artificial Sequence	
		FEATURE:	
		OTHER INFORMATION: Primer/probe derived from C. elegans	
97	<400>	SEQUENCE: 9	
98		cgctacggca aaaaagtgaa	20
		SEQ ID NO: 10	20
		LENGTH: 20	
		TYPE: DNA	

DATE: 11/15/2004 PATENT APPLICATION: US/09/963,693B TIME: 12:40:01

```
103 <213> ORGANISM: Artificial Sequence
      104 <220> FEATURE:
      105 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
      106 <400> SEQUENCE: 10
                gacgatcccg aggtgagtat
                                                                                         20
      109 <210> SEQ ID NO: 11
     110 <211> LENGTH: 5816
     111 <212> TYPE: DNA
     112 <213> ORGANISM: Caenorhabditis elegans
     113 <220> FEATURE:
     114 <221> NAME/KEY: misc feature
     115 <222> LOCATION: (1)...(5816)
     116 <223> OTHER INFORMATION: n = A, T, C or G
     117 <400> SEQUENCE: 11
     118
               ggtttaatta cccaagtttg agctccaaga gcacacatct gatcgtcgga ttctactgta
                                                                                         60
     119
                ctccccgaaa aaccaacaaa aaacacaagt ttttgaacac ttgtaaatgc agacagaacg
                                                                                        120
     120
                atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaattttgga aaatttggaa
                                                                                        180
     121
               gaagagaatc teggeeegag etgetegteg acgaetteaa caacegetge caeegaaget
                                                                                        240
     122
               ctcggaacaa ccactgagga tatgaggctt aagcagcagc gaagctcgtc gcgtgccacg
                                                                                        300
     123
               gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaat gagacggctt
                                                                                        360
     124
               cgacttgtca aaaattcgcg gacgcggcgt agaacgacgc ccgattcaag tatggactgc
                                                                                        420
     125
               tatgaggaaa accegecate acaaaaactt caataaatta ttettggatt tetaaaaagt
                                                                                        480
     126
               catcaatgac gtcattaatg cttttactgc tattcgcttt tgtacagccg tgtgcctcaa
                                                                                        540
     127
               tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtgggat attaagccgc
                                                                                        600
     128
               aatggtcgaa acttggtgat ccgaacgaaa aagatttggc tggtcagaga atggtcaact
                                                                                        660
     129
               gcacagtggt ggaaggttcg ctgacaatct catttgtact gaaacacaag acaaaagcac
                                                                                        720
     130
               aagaagaaat gcatcgaagt ctacagccaa gatattccca agacgaattt atcacttttc
                                                                                        780
     131
               cgcatctacg tgaaattact ggaactctgc tcgtttttga gactgaagga ttagtggatt
                                                                                        840
     132
               tgcgtaaaat tttcccaaat cttcgtgtaa ttggaggccg ttcgctgatt caacactatg
                                                                                       900
     133
               cgctgataat ttatcgaaat ccggatttgg agatcggtct tgacaagctt tccgtaattc
                                                                                       960
     134
               gaaatggtgg tgtacggata atcgataatc gaaaactgtg ctacacgaaa acgattgatt
                                                                                      1020
     135
               ggaaacattt gatcacttct tccatcaacg atgttgtcgt tgataatgct gccgagtacg
                                                                                      1080
     136
               ctgtcactga gactggattg atgtgcccac gtggagcttg cgaagaggat aaaggcgaat
                                                                                      1140
     137
               caaagtgtca ttatttggag gaaaagaatc aggaacaagg tgtcgaaaga gttcagagtt
                                                                                      1200
     138
               gttggtcgaa caccacttgc caaaagtctt gtgcttatga tcgtcttctt ccaacgaaag
                                                                                      1260
     139
               aaatcggacc gggatgtgat gcgaacggcg atcgatgtca cgatcaatgc gtgggcggtt
                                                                                      1320
     140
               gtgagcgtgt gaatgatgcc acagcatgcc acgcgtgcaa gaatgtctat cacaagggaa
                                                                                      1380
     141
               agtgtatcga aaagtgtgat gctcacctgt accttctcct tcaacgtcgt tgtgtgaccc
                                                                                      1440
     142
               gtgagcagtg tctgcagctg aatccggtgc tctcgaacaa aacagtgcct atcaaggcga
                                                                                      1500
     143
               cggcaggcct ttgctcggat aaatgtcccg atggttatca aatcaacccg gatgatcatc
                                                                                      1560
     144
               gagaatgccg aaaatgcgtt ggcaagtgtg agattgtgtg cgagatcaat cacgtcattg
                                                                                      1620
     145
               atacgtttcc gaaggcacag gcgatcaggc tatgcaatat tattgacgga aatctgacga
                                                                                      1680
     146
               tcgagattcg cggaaaacag gattcgggaa tggcgtccga gttgaaggat atatttgcga
                                                                                      1740
               acattcacac gatcaccggc tacctgttgg tacgtcaatc gtcaccgttt atctcgttga
     147
                                                                                      1800
     148
               acatgttccg gaatttacga cgtattgagg caaagtcact gttcagaaat ctatatgcta
                                                                                      1860
     149
               tcacagtttt tgaaaatccg aatttaaaaa agctattcga ttcaacgacg gatttgacgc
                                                                                      1920
     150
               ttgatcgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatatcaagc
                                                                                      1980
     151
               agctaatgtc aaagttaaat ataccactcg atccgataga tcaatcagaa gggacaaatg
                                                                                      2040
W--> 152
               gtgagaaggn aatctgtgag gatatggcaa tcaacgtgag catcacagcg gtcaacgcgg
                                                                                      2100
```

DATE: 11/15/2004 PATENT APPLICATION: US/09/963,693B TIME: 12:40:01

153	actcggtctt	ctttagttgg	ccctcattca	acattaccga	tatagatcac	cgaaagtttc	2160
154	tcggctacga	gctcttcttc	aaagaagtcc	: cacgaatcga	tgagaacato	acqatcqaaq	2220
155	aggatcgaag	tgcgtgtgtc	gattcgtggc	: agagtgtctt	caaacagtag	tacgagacgt	2280
156	cgaacggtga	accgaccccg	gacatttta	tggatattgg	accacacaaa	cgaattcggc	2340
157	cgaatacgct	ctacgcgtac	tatgtggcga	cgcagatggt	gttgcatgcc	gatacaaaga	2400
158	acggtgtatc	gaagattggt	tttgtgagga	cgagctacta	tacgcctgat	cct.ccga.cgt	2460
159	tggcactagc	gcaagtcgat	toggacgota	ttcatattac	gtgggaagcg	ccactccaac	2520
160	cgaacggaga	cctcacgcat	tacacaatta	tgtggcgtga	gaatgaagtg	agcccgtacg	2580
161	aggaagccga	aaagttttgt	acaqatqcaa	gcacccccgc	aaatcgacaa	cacacaaaaa	2640
162	atccgaaaga	gacgattgta	gccgataagc	cagtcgatat	tccqtcatca	cgtaccgtag	2700
163	ctccgacact	tttgactatg	atgggtcacg	aagatcagca	gaaaacgtgc	gctgcaacgc	2760
164	ccggttgttg	ttcgtgttcg	gctatcqaaq	aatcatcgga	acagaacaag	aagaagcgac	2820
165	cggatccgat	gtcggcgatc	gaatcatctq	catttgagaa	taagctgttg	gatgaggttt	2880
166	taatgccgag	agacacgatg	cgagtgagac	gatcaattga	agacgcgaat.	cgagtcagtg	2940
167	aagagttgga	aaaagctgaa	aatttqqqaa	aagctccaaa	aactctcggt	adaaadaadc	3000
168	cgctgatcca	tatttcgaag	aaqaaqccqt	cgagcagcag	caccacatic	acaccaactc	3060
169	caacgatcgc	atcaatqtat	gccttaacaa	ggaaaccgac	tacggtgccg	agaacaaga	3120
170	ttcggctcta	cgagatctac	gaacctttac	ccggaagctg	ggcgattaat	gtatcaggg	3180
171	tggcattgga	taataqttat	gtgatacgaa	atttgaagca	ttacacactt	tatocoattt	3240
172	ctctatccgc	gtgccaaaac	atgacagtac	ccggagcatc	ttgctcaata	tcccatcata	3300
173	cgggagcatt	gaaacqaaca	aaacacatca	cagacattga	taaagtgttg	aatgaaacaa	3360
174	ttgaatggag	atttatqaat	aataqtcaac	aagtcaacgt	gacgtgggat	ccaccgactg	3420
175	aagtgaatgg	tggaatattc	ggttatgttg	taaagcttaa	gtcaaaagtc	gatggatga	3480
176	ttgttatgac	gagatqtqtc	ggtgcgaaga	gaggatattc	aacacggaat	cagggtgtcc	3540
177	tattccagaa	tttggccgat	ggacgttatt	ttgtctcagt	aacggcgacc	tctgtacacg	3600
178	gcgctggacc	ggaagccgaa	tcctccgacc	caatcgtcgt	catgacgcca	gacttettea	3660
179	ctgtggaaat	cattctcqqc	atgetteteg	tctttttgat	tttaatgtca	attaccaatt	3720
180	gtataatcta	ctactacatt	caaqtacqct	acggcaaaaa	agtgaaagct	ctatctgact	3780
181	ttatgcaatt	gaatcccqaa	tattatataa	acaataagta	caatgcagac	gattgggagg	3840
182	tacggcagga	tgatgttgtg	ctcqqacaac	agtgtggaga	gggatcattc	ggaaaagtgt	3900
183	acctaggaac	tggaaataat	gttgtttctc	tgatgggtga	tcgtttcgga	ccatatacta	3960
184	ttaagattaa	tgtagatgat	ccaqcqtcqa	ctgagaatct	caactatete	atggaageta	4020
185	atattatgaa	gaactttaaq	actaacttta	tcgtccaact	gtacggagtt	atctctactc	4080
186	tacaaccagc	gatggttgtg	atggaaatga	tggatcttgg	aaatctccgt	gactatetee	4140
187	gatcgaaacg	cgaagacgaa	gtgttcaatg	agacggactg	caactttttc	gacataatcc	4200
188	cgagggataa	attccatgag	tgggccgcac	agatttgtga	tggtatggcg	tacctggagt	4260
189	cgctcaagtt	ttgccatcga	gatctcqccq	cacgtaattg	catgataaat	caggatgaga	4320
190	ctgtcaagat	tggagatttc	ggaatggctc	gtgatctatt	ctatcatgac	tattataagc	4380
191	catcgggcaa	gcgtatgatg	cctqttcqat	ggatgtcacc	cgagtcgttg	aaagacggaa	4440
192	agtttgactc	gaaatctgat	gtttggagct	tcggagttgt	tctctatgaa	atggttacac	4500
193	tcggtgctca	gccatatatt	ggtttgagta	atgatgaggt	gttgaattat	attggaatgg	4560
194	cccggaaggt	tatcaagaag	cccqaatqtt	gtgaaaacta	ttggtataag	gtgatgaaaa	4620
195	tgtgctggag	atactcacct	cqqqatcqtc	cgacgttcct	ccagct.cgt.t	catcttctag	4680
196	cagctgaagc	ttcaccagaa	ttccgagatt	tatcatttgt	Cctaaccgat	aatcaaatga	4740
197	tccttgacga	ttcagaagca	ctggatcttg	atgatattga	tgatactgat	atgaatgatc	4800
198	aggttgtcga	ggtggcaccq	gatqttqaqa	acgtcgaggt	tcagagtgat	toggaacgto	4860
199	ggaatacgga	ttcaataccq	ttgaaacagt	ttaagacgat	Coctodate	aatgcgacga	4920
200	cgagtcattc	gacaatatcq	attgatgaga	caccgatgaa	agcgaaggag	caagaaggat	4980
201	cgctggatga	ggagtacqca	ttgatgaatc	atagtggagg	tccgagtgat	acaaaaatta	5040
			2 2	2 22422) 9 - 9 - 0	J-JJ449000	0010

DATE: 11/15/2004 PATENT APPLICATION: US/09/963,693B TIME: 12:40:01

```
202
           ggacgtatgc tggtgatgga gattatgtgg agagagatgt tcgagagaat gatgtgccaa
                                                                                  5100
203
          cgcgacgaaa tactggtgca tcaacatcaa gttacacagg tggtggtcca tattgcctaa
                                                                                  5160
204
          caaatcgtgg tggttcaaat gaacgaggag ccggtttcgg tgaagcagta cgattaactg
                                                                                  5220
205
          atggtgttgg aagtggacat ttaaatgatg atgattatgt tgaaaaagag atatcatcca
                                                                                  5280
206
          tggatacgcg ccggagcacg ggcgcctcga gctcttccta cggtgttcca cagacgaatt
                                                                                  5340
207
          ggagtggaaa tcgtggtgcc acgtattata cgagtaaagc tcaacaggca gcaactgcag
                                                                                  5400
208
          cagcagcagc agcagcagct ctccaacagc aacaaaatgg tggtcgaggc gatcgattaa
                                                                                  5460
209
          ctcaactacc cggaactgga catttacaat cgacacgtgg tggacaagat ggagattata
                                                                                  5520
210
          ttgaaactga accgaaaaat tatagaaata atggatctcc atcgcgaaac ggcaacagcc
                                                                                  5580
211
          gtgacatttt caacggacgt tcggctttcg gtgaaaatga gcatctaatc gaggataatg
                                                                                  5640
212
          agcatcatcc acttgtctga aacccccaaa aaatcccgcc tcttaaatta taaattatct
                                                                                  5700
213
          cccacattat catatctcta cacgaatatc ggatttttt tcagattttt tctgaaaaat
                                                                                  5760
214
          tctgaataat tttaccccat ttttcaaatc tctgtatttt tttttgttat tacccc
                                                                                  5816
216 <210> SEQ ID NO: 12
217 <211> LENGTH: 1724
218 <212> TYPE: PRT
219 <213> ORGANISM: Caenorhabditis elegans
220 <400> SEQUENCE: 12
221
          Met Thr Ser Leu Met Leu Leu Leu Leu Phe Ala Phe Val Gln Pro Cys
222
           1
223
          Ala Ser Ile Val Glu Lys Arg Cys Gly Pro Ile Asp Ile Arg Asn Arg
224
225
          Pro Trp Asp Ile Lys Pro Gln Trp Ser Lys Leu Gly Asp Pro Asn Glu
226
                                       40
227
          Lys Asp Leu Ala Gly Gln Arg Met Val Asn Cys Thr Val Val Glu Gly
228
                                   55
229
          Ser Leu Thr Ile Ser Phe Val Leu Lys His Lys Thr Lys Ala Gln Glu
230
231
          Glu Met His Arg Ser Leu Gln Pro Arg Tyr Ser Gln Asp Glu Phe Ile
232
                                               90
233
          Thr Phe Pro His Leu Arg Glu Ile Thr Gly Thr Leu Leu Val Phe Glu
234
                                           105
235
          Thr Glu Gly Leu Val Asp Leu Arg Lys Ile Phe Pro Asn Leu Arg Val
236
                  115
                                       120
237
          Ile Gly Gly Arg Ser Leu Ile Gln His Tyr Ala Leu Ile Ile Tyr Arg
238
                                   135
          Asn Pro Asp Leu Glu Ile Gly Leu Asp Lys Leu Ser Val Ile Arg Asn
239
240
                              150
                                                   155
241
          Gly Gly Val Arg Ile Ile Asp Asn Arg Lys Leu Cys Tyr Thr Lys Thr
242
                          165
                                               170
243
          Ile Asp Trp Lys His Leu Ile Thr Ser Ser Ile Asn Asp Val Val
244
                      180
                                           185
                                                               190
245
          Asp Asn Ala Ala Glu Tyr Ala Val Thr Glu Thr Gly Leu Met Cys Pro
246
                                       200
247
          Arg Gly Ala Cys Glu Glu Asp Lys Gly Glu Ser Lys Cys His Tyr Leu
248
                                  215
          Glu Glu Lys Asn Gln Glu Gln Gly Val Glu Arg Val Gln Ser Cys Trp
249
250
          225
                              230
                                                   235
                                                                        240
251
          Ser Asn Thr Thr Cys Gln Lys Ser Cys Ala Tyr Asp Arg Leu Leu Pro
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/15/2004 PATENT APPLICATION: US/09/963,693B TIME: 12:40:02

Input Set : N:\Crf3\RULE60\09963693b.raw.txt
Output Set: N:\CRF4\11152004\1963693B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:11; N Pos. 2050
Seq#:31; N Pos. 3,12,15,18,21
Seq#:32; N Pos. 7,8,9,12,15
Seq#:115; Xaa Pos. 4,5,11,12,16,37,38,39,41,42,43,47
Seq#:126; Xaa Pos. 20,21,22
Seq#:127; Xaa Pos. 20,21,22
Seq#:128; Xaa Pos. 20,21,22
Seq#:129; Xaa Pos. 20,21,22
Seq#:130; Xaa Pos. 20,21,22
Seq#:131; Xaa Pos. 20,21,22
Seq#:132; Xaa Pos. 20,21,22
Seq#:133; Xaa Pos. 20,21,22
Seq#:134; Xaa Pos. 20,21,22
Seq#:135; Xaa Pos. 20,21,22
Seq#:136; Xaa Pos. 20,21,22
Seq#:137; Xaa Pos. 20,21,22
Seq#:138; Xaa Pos. 20,21,22
Seq#:139; Xaa Pos. 20,21,22
Seq#:140; Xaa Pos. 20,21,22
Seq#:141; Xaa Pos. 20,21,22
Seq#:142; Xaa Pos. 20,21,22
Seq#:143; Xaa Pos. 20,21,22
Seq#:144; Xaa Pos. 20,21,22
Seq#:145; Xaa Pos. 20,21,22
Seq#:146; Xaa Pos. 20,21,22
Seq#:147; Xaa Pos. 20,21,22
Seq#:148; Xaa Pos. 20,21,22
Seq#:149; Xaa Pos. 20,21,22
Seq#:150; Xaa Pos. 20,21,22
Seq#:151; Xaa Pos. 20,21,22
Seq#:152; Xaa Pos. 20,21,22
Seq#:153; Xaa Pos. 20,21,22
Seq#:238; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:304; Xaa Pos. 4,5
Seq#:318; N Pos. 6
Seq#:323; Xaa Pos. 2,3,5,6
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/963,693B

DATE: 11/15/2004 TIME: 12:40:02

```
L:6 M:270 C: Current Application Number differs, Wrong Format
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2040
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:3184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
M:341 Repeated in SeqNo=115
L:3394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:3410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:3426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:16
L:3442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:16
L:3458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:16
L:3474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:16
L:3490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:16
L:3506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:16
L:3522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16
L:3538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:16
L:3554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:16
L:3570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:16
L:3586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:16
L:3602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:16
L:3618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:16
L:3634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:16
L:3650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:16
L:3666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:16
L:3682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:3698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:3714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:3730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:3746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:3762\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16
L:3778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:16
L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16
L:3810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16
L:3826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:16
L:5600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:80
L:6421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:6904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318 after pos.:0
L:6944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0
```